

EAST UPDATE 9/738,066

L Number	Hits	Search Text	DB	Time stamp
1	523	((514/258) or (544/279)).CCLS.	USPAT; US-PGPUB	2004/05/18 15:28
2	171	pyrido WITH (pyrimidinyl or pyrimidyl or pyrimidin)	USPAT; US-PGPUB	2004/05/18 15:29
3	26	(((514/258) or (544/279)).CCLS.) and (pyrido WITH (pyrimidinyl or pyrimidyl or pyrimidin))	USPAT; US-PGPUB	2004/05/18 15:31
4	145	(pyrido WITH (pyrimidinyl or pyrimidyl or pyrimidin)) not (((514/258) or (544/279)).CCLS.) and (pyrido WITH (pyrimidinyl or pyrimidyl or pyrimidin)))	USPAT; US-PGPUB	2004/05/18 15:31

09/ 738,066

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1202txn

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 JAN 27 Source of Registration (SR) information in REGISTRY updated
and searchable
NEWS 4 JAN 27 A new search aid, the Company Name Thesaurus, available in
CA/CaPlus
NEWS 5 FEB 05 German (DE) application and patent publication number format
changes
NEWS 6 MAR 03 MEDLINE and LMedline reloaded
NEWS 7 MAR 03 MEDLINE file segment of TOXCENTER reloaded
NEWS 8 MAR 03 FRANCEPAT now available on STN
NEWS 9 MAR 29 Pharmaceutical Substances (PS) now available on STN
NEWS 10 MAR 29 WPIFV now available on STN
NEWS 11 MAR 29 New monthly current-awareness alert (SDI) frequency in RAPRA
NEWS 12 APR 26 PROMT: New display field available
NEWS 13 APR 26 IFIPAT/IFIUDB/IFICDB: New super search and display field
available
NEWS 14 APR 26 LITAlert now available on STN
NEWS 15 APR 27 NLDB: New search and display fields available
NEWS 16 May 10 PROUSDDR now available on STN
NEWS 17 May 19 PROUSDDR: One FREE connect hour, per account, in both May
and June 2004
NEWS 18 May 12 EXTEND option available in structure searching
NEWS 19 May 12 Polymer links for the POLYLINK command completed in REGISTRY
NEWS 20 May 17 FRFULL now available on STN

NEWS EXPRESS MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 15:55:51 ON 18 MAY 2004

09/ 738,066

=> file reg
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 15:55:58 ON 18 MAY 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 17 MAY 2004 HIGHEST RN 682740-60-9
DICTIONARY FILE UPDATES: 17 MAY 2004 HIGHEST RN 682740-60-9

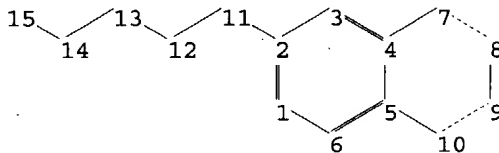
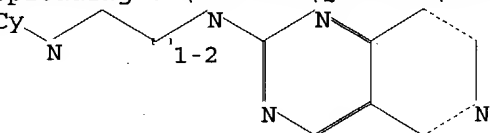
ESCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>
Uploading C:\STNEXP4\QUERIES\09738066.str



chain nodes :

1 12 13 14 15

ring nodes :

2 3 4 5 6 7 8 9 10

chain bonds :

2-11 11-12 12-13 13-14 14-15

ring bonds :

2-2 1-6 2-3 3-4 4-5 4-7 5-6 5-10 7-8 8-9 9-10

exact/norm bonds :

2-11 4-7 5-10 7-8 8-9 9-10 11-12 13-14 14-15

exact bonds :

2-13

normalized bonds :

2-2 1-6 2-3 3-4 4-5 5-6

isolated ring systems :

containing 1 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:CLASS
12:CLASS 13:CLASS 14:CLASS 15:Atom

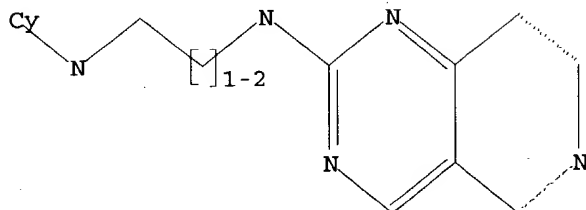
09/ 738,066

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 ful

FULL SEARCH INITIATED 15:56:22 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 7972 TO ITERATE

100.0% PROCESSED 7972 ITERATIONS

12 ANSWERS

SEARCH TIME: 00.00.01

L2 12 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

155.42

155.63

FILE 'CAPLUS' ENTERED AT 15:56:26 ON 18 MAY 2004

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FILE COVERS 1907 - 18 May 2004 VOL 140 ISS 21

FILE LAST UPDATED: 17 May 2004 (20040517/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l2

L3 1 L2

=> d l3 1- ibib abs hitstr

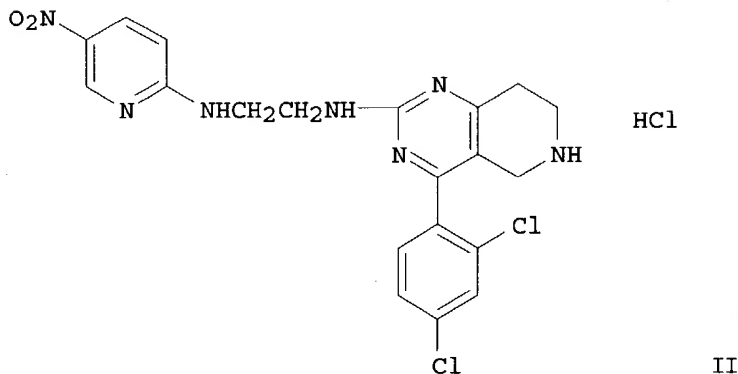
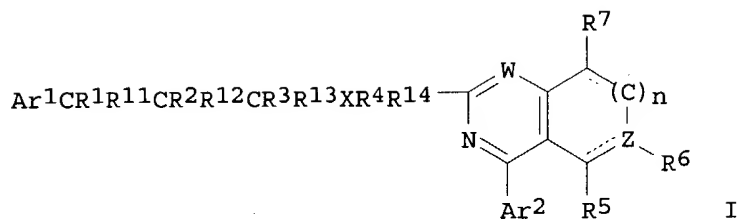
YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN

09/ 738,066

ACCESSION NUMBER: 2001:453065 CAPLUS
DOCUMENT NUMBER: 135:46199
TITLE: Bicyclic inhibitors of glycogen synthase kinase 3
INVENTOR(S): Nuss, John M.; Zhou, Xiaohui A.
PATENT ASSIGNEE(S): Chiron Corp., USA
SOURCE: PCT Int. Appl., 63 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001044246	A1	20010621	WO 2000-US34049	20001214
W:				
AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW:				
GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1240168	A1	20020918	EP 2000-989272	20001214
R:				
AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003516991	T2	20030520	JP 2001-544736	20001214
US 2001044436	A1	20011122	US 2000-738066	20001215
US 2003008866	A1	20030109	US 2002-228621	20020826
PRIORITY APPLN. INFO.:			US 1999-172403P	P 19991217
			WO 2000-US34049	W 20001214
			US 2000-738066	A1 20001215
OTHER SOURCE(S):		MARPAT 135:46199		
GI				



AB Bicyclic compds. I [W,X, Y, Z = (un)substituted C, N, S; n = 0-2; Ar1, Ar2 = (un)substituted aryl, aryloxy, arylamino, heteroaryl; R1-R4 = H, (un)substituted OH, alkyl, cycloalkyl, amino, acyl, aryl, heteroaryl; R11-R14 = H, (un)substituted alkyl; R5-R7 = H, OH, halo, CO2H, NO2, CN, (un)substituted alkyl, cycloalkyl, heterocyclyl, alkoxy, aryl, acyl, acyloxy, amino, amido, amidino, imido, arylsulfonyl, arylsulfonamido] were prepared for use in inhibiting the activity of glycogen synthase kinase (GSK3) in vitro and a treatment of GSK3 mediated disorders in vivo, such as diabetes, Alzheimer's disease and other neurodegenerative disorders, obesity, atherosclerotic cardiovascular disease, essential hypertension, polycystic ovary syndrome, syndrome X, ischemia, traumatic brain injury, bipolar disorder, immunodeficiency or cancer. Thus, the pyridopyrimidine II was prepared from Me 4-oxo-3-piperidinecarboxylate in 7 steps. I have IC50 against GSK3 of $\leq 1 \mu\text{M}$.

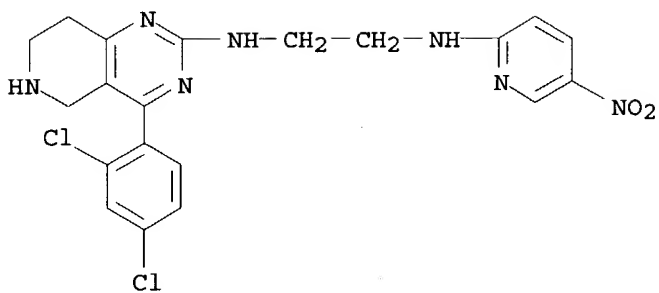
IT 344958-30-1P 344958-31-2P 344958-32-3P
344958-35-6P 344958-38-9P 344958-43-6P
344958-44-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of pyridopyrimidines as inhibitors of glycogen synthase kinase 3)

RN 344958-30-1 CAPLUS

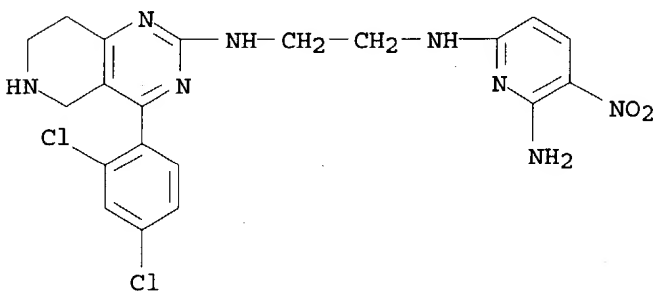
CN 1,2-Ethanediamine, N-[4-(2,4-dichlorophenyl)-5,6,7,8-tetrahydropyrido[4,3-d]pyrimidin-2-yl]-N'-(5-nitro-2-pyridinyl)-, hydrochloride (9CI) (CA INDEX NAME)

09/ 738,066



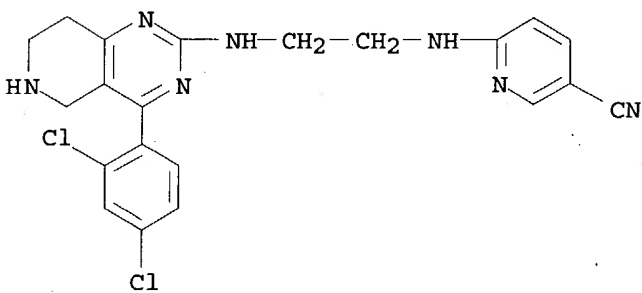
●x HCl

RN 344958-31-2 CAPLUS
CN 2,6-Pyridinediamine, N6-[2-[[4-(2,4-dichlorophenyl)-5,6,7,8-tetrahydropyrido[4,3-d]pyrimidin-2-yl]amino]ethyl]-3-nitro-, hydrochloride (9CI) (CA INDEX NAME)



●x HCl

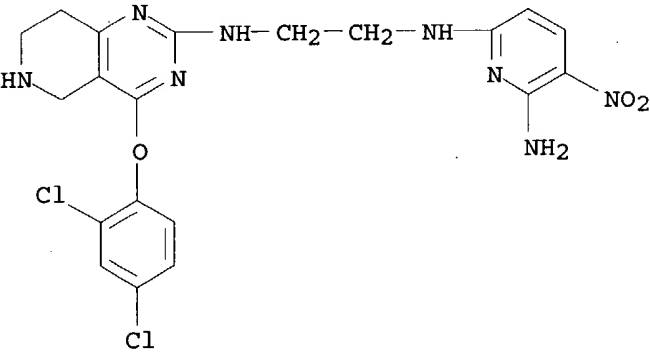
RN 344958-32-3 CAPLUS
CN 3-Pyridinecarbonitrile, 6-[[2-[[4-(2,4-dichlorophenyl)-5,6,7,8-tetrahydropyrido[4,3-d]pyrimidin-2-yl]amino]ethyl]amino]-, hydrochloride (9CI) (CA INDEX NAME)



●x HCl

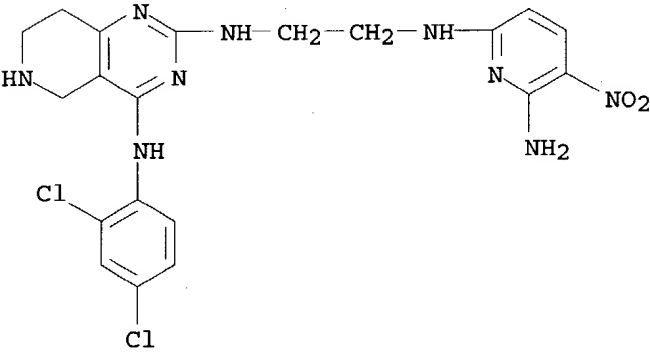
09/ 738,066

RN 344958-35-6 CAPLUS
CN 2,6-Pyridinediamine, N6-[2-[[4-(2,4-dichlorophenoxy)-5,6,7,8-tetrahydropyrido[4,3-d]pyrimidin-2-yl]amino]ethyl]-3-nitro-, hydrochloride (9CI) (CA INDEX NAME)



●x HCl

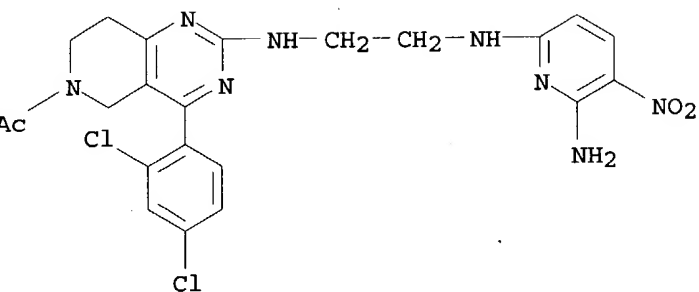
RN 344958-38-9 CAPLUS
CN Pyrido[4,3-d]pyrimidine-2,4-diamine, N2-[2-[(6-amino-5-nitro-2-pyridinyl)amino]ethyl]-N4-(2,4-dichlorophenyl)-5,6,7,8-tetrahydro-, hydrochloride (9CI) (CA INDEX NAME)



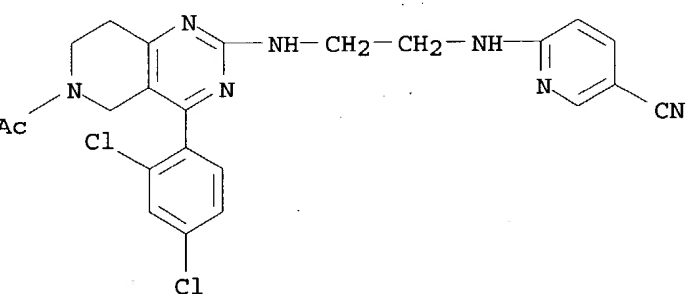
●x HCl

RN 344958-43-6 CAPLUS
CN Pyrido[4,3-d]pyrimidin-2-amine, 6-acetyl-N-[2-[(6-amino-5-nitro-2-pyridinyl)amino]ethyl]-4-(2,4-dichlorophenyl)-5,6,7,8-tetrahydro- (9CI) (CA INDEX NAME)

09/ 738,066

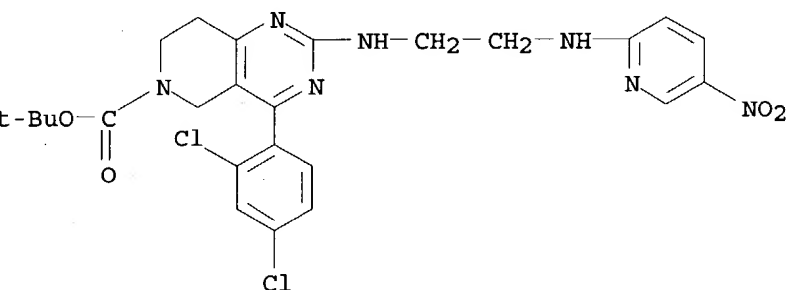


RN 344958-44-7 CAPLUS
CN Pyrido[4,3-d]pyrimidin-2-amine, 6-acetyl-N-[2-[(5-cyano-2-pyridinyl)amino]ethyl]-4-(2,4-dichlorophenyl)-5,6,7,8-tetrahydro- (9CI)
(CA INDEX NAME)

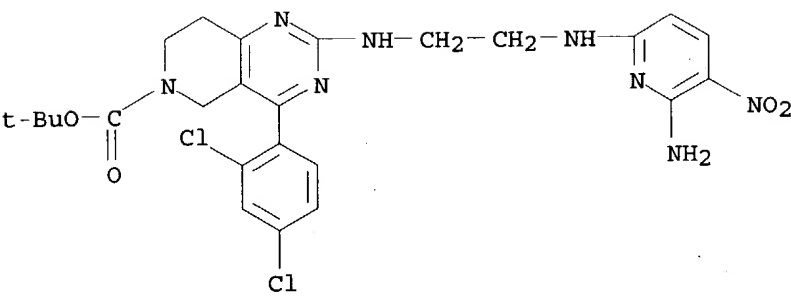


IT 344958-45-8P 344958-46-9P 344958-47-0P
344958-48-1P 344958-49-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation of pyridopyrimidines as inhibitors of glycogen synthase kinase
3)

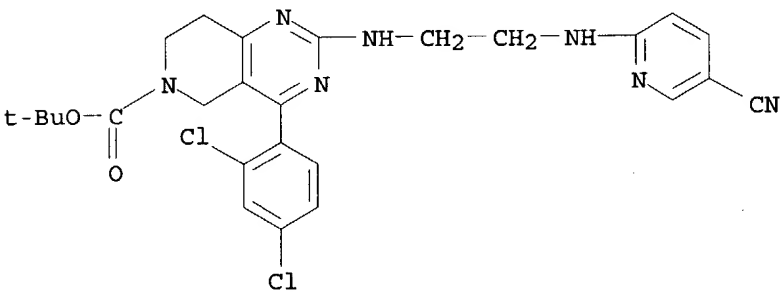
RN 344958-45-8 CAPLUS
CN Pyrido[4,3-d]pyrimidine-6(5H)-carboxylic acid, 4-(2,4-dichlorophenyl)-7,8-dihydro-2-[[2-[(5-nitro-2-pyridinyl)amino]ethyl]amino]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



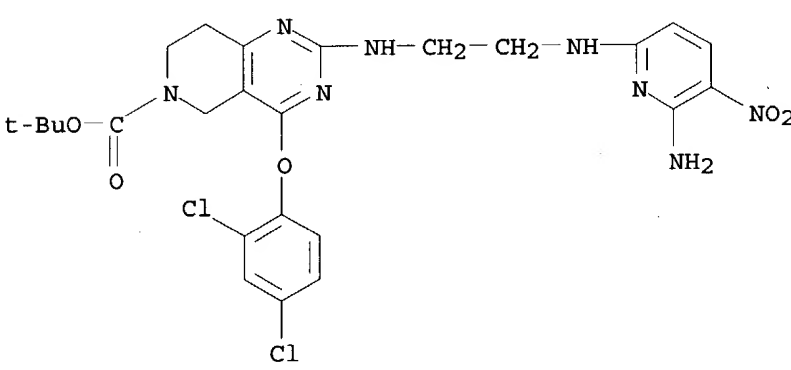
RN 344958-46-9 CAPLUS
CN Pyrido[4,3-d]pyrimidine-6(5H)-carboxylic acid, 2-[[2-[(6-amino-5-nitro-2-pyridinyl)amino]ethyl]amino]-4-(2,4-dichlorophenyl)-7,8-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 344958-47-0 CAPLUS
CN Pyrido[4,3-d]pyrimidine-6(5H)-carboxylic acid, 2-[[2-[(5-cyano-2-pyridinyl)amino]ethyl]amino]-4-(2,4-dichlorophenyl)-7,8-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

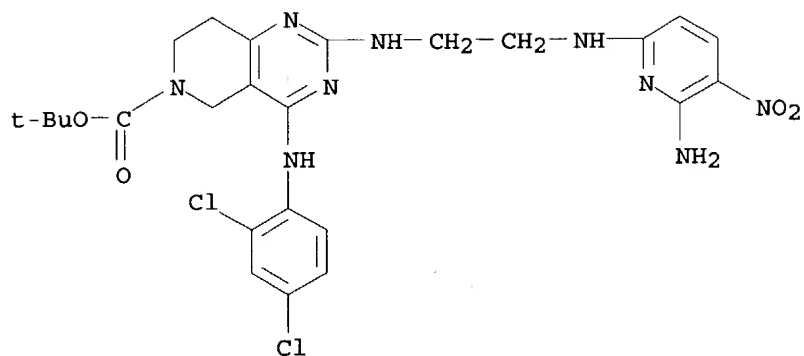


RN 344958-48-1 CAPLUS
CN Pyrido[4,3-d]pyrimidine-6(5H)-carboxylic acid, 2-[[2-[(6-amino-5-nitro-2-pyridinyl)amino]ethyl]amino]-4-(2,4-dichlorophenoxy)-7,8-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 344958-49-2 CAPLUS
CN Pyrido[4,3-d]pyrimidine-5(6H)-carboxylic acid, 2-[[2-[(6-amino-5-nitro-2-pyridinyl)amino]ethyl]amino]-4-[(2,4-dichlorophenyl)amino]-7,8-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

09/ 738,066



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 15:55:51 ON 18 MAY 2004)

FILE 'REGISTRY' ENTERED AT 15:55:58 ON 18 MAY 2004

L1 STRUCTURE UPLOADED
L2 12 S L1 FUL

FILE 'CAPLUS' ENTERED AT 15:56:26 ON 18 MAY 2004

L3 1 S L2

=> log y

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
5.19	160.82

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-0.69	-0.69

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STN INTERNATIONAL LOGOFF AT 15:56:51 ON 18 MAY 2004